

Learning from Multiple Sectors in Peru and Indonesia



JICA Peru Office

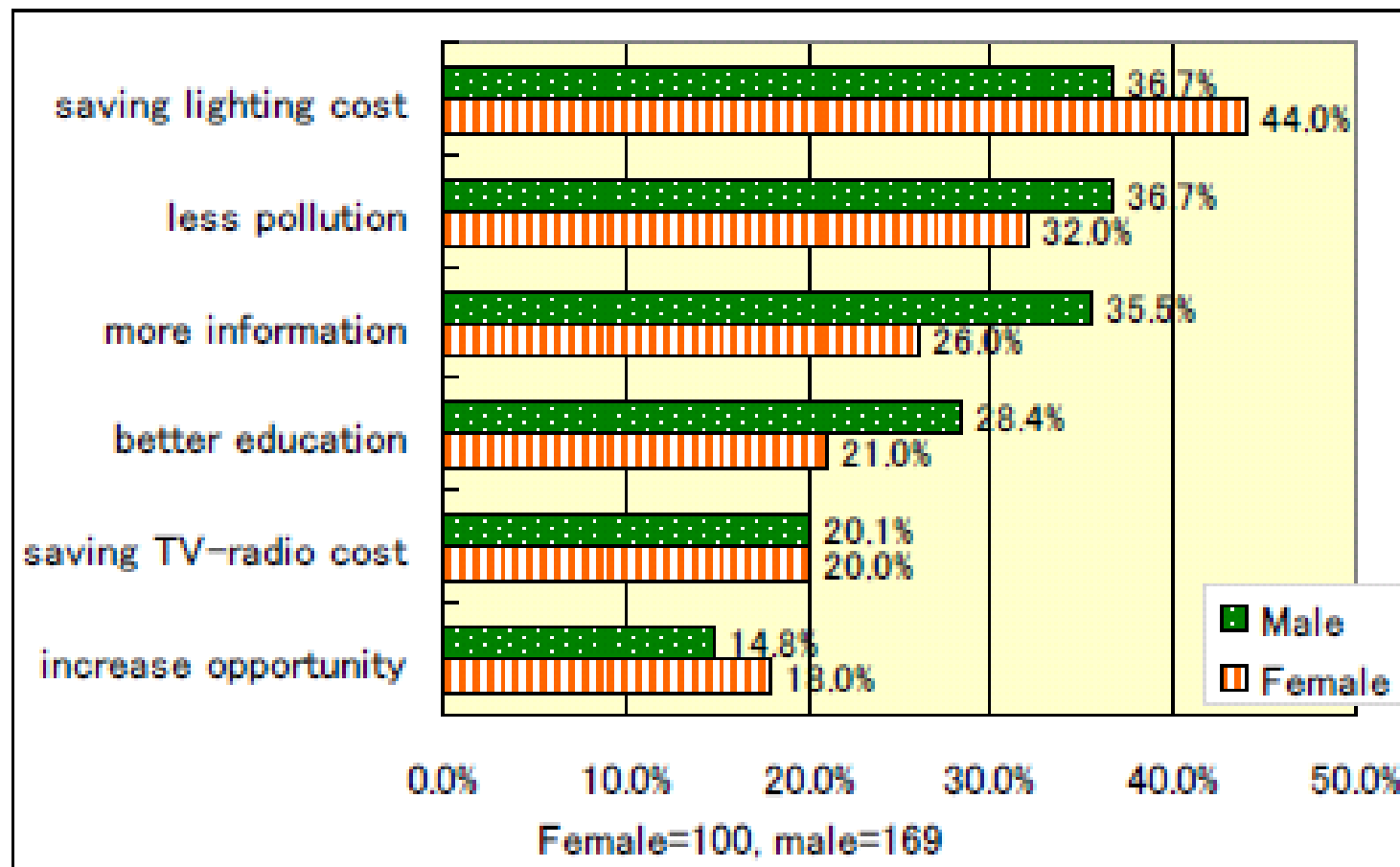
Japan International Cooperation Agency

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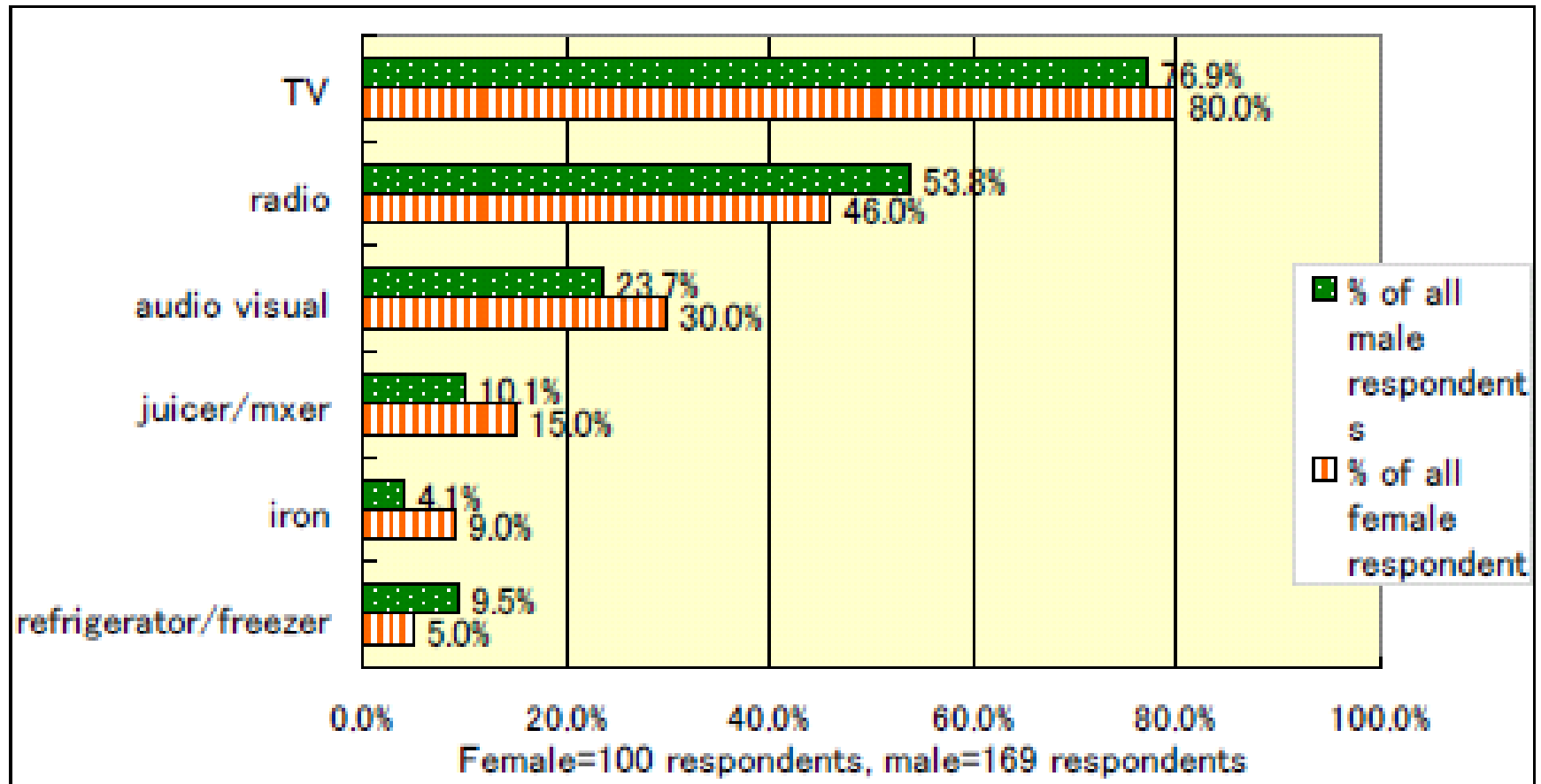
1. Identifying different needs by gender
e.g. electricity
2. Assessing gender-related impacts of
Infrastructure project
 - 2-1. Road construction
 - 2-2. Small-Scale Infrastructure
3. Summary and recommendation

1-1. Identifying Different Needs for Electricity by Gender (in Peru)



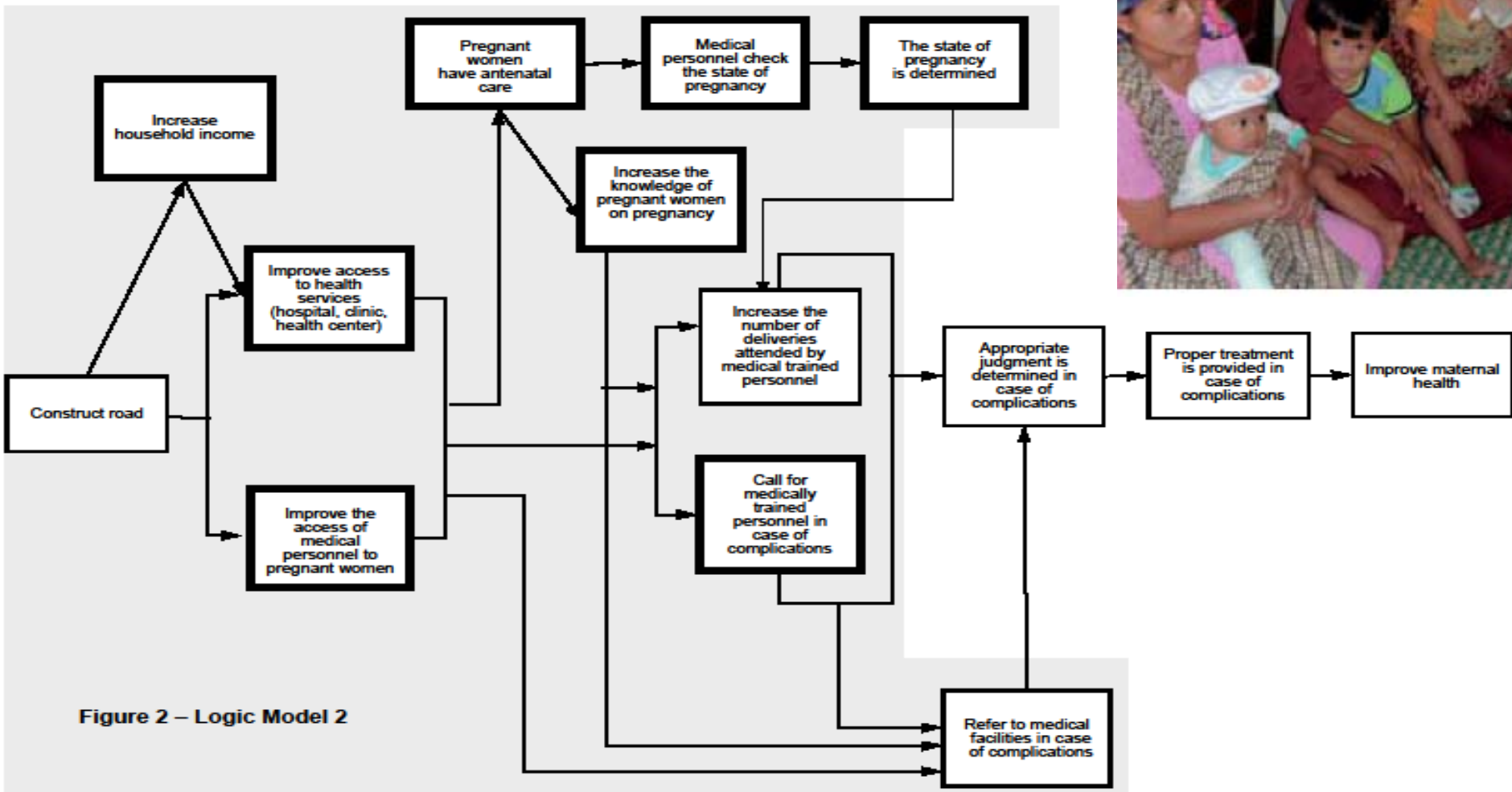
Source: JICA, "Master Plan Study for Rural Electrification by Renewable Energy in the Republic of Peru" (2008)

1-2. Identifying Different Needs for Desirable Electric Appliances by Gender (in Peru)



Source: JICA, "Master Plan Study for Rural Electrification by Renewable Energy in the Republic of Peru" (2008)

2-1. Maternal Health Benefits from Road construction in Indonesia



Source: JBIC and UNFPA, "The Impact of Road Development on the Health of Pregnant and Parturient Women" (2004)

2-1. the means of transportation and the difference of accessibility to medical/maternal services between two groups

		Paved road	Unpaved road	P-value
Walk	(N)	36	0	
	Average time	8.8±6.42	—	
	Average cost	0	—	
Bike taxi	(N)	49	76	
	Average time	8.8±4.01	16.8±5.96	
	Average cost	1,490±554	2,396±563	
Bus	(N)	2	0	
	Average time	10.5±6.36	—	
	Average cost	750±354	—	
Other	(N)	1	5	
	Average time	10	19.0±7.42	
	Average cost	0	0	
Average time (min.)	N=88	8.86±5.09	16.95±5.96	0.001※
Average cost (rupiah)	N=81	847±842	2,216±709	0.001※

(※p<0.05)

Source: JBIC and UNFPA, “The Impact of Road Development on the Health of Pregnant and Parturient Women” (2004)

2-1. The Impact of Road Construction on Prenatal Care

Prenatal care		women who live near Paved road	women who live near Unpaved road	P-value
Have you had prenatal care?	(N)	(102)	(102)	0.001※
	Yes	71(69.6%)	47(46.1%)	
	No	31(30.4%)	55(53.9%)	
Have you had prenatal care by midwives?	(N)	(102)	(102)	0.001※
	Yes	64(62.7%)	39(38.2%)	
	No	38(37.3%)	63(61.8%)	
Have you had prenatal care at the health center?	(N)	(102)	(102)	0.001※
	Yes	52(51.0%)	29(28.4%)	
	No	50(49.0%)	73(71.6%)	

(※ $p < 0.05$)

Source: JBIC and UNFPA, "The Impact of Road Development on the Health of Pregnant and Parturient Women" (2004)

2-2. Impact of Small-Scale Infrastructure Project on Improvement of Female Housework in Amazon Area, Peru (Beneficiaries' perception)

	Substantially Improved	Improved	Marginally Improved	No improvement
Water quality	22.7	33.3	22.3	21.6
Infant Mortality	8.1	49.1	37.0	5.3
Disease, Parasites	15.4	49.1	31.9	3.2
Medical expense reduction	12.6	54.9	26.4	5.5
Poisonous snake problems	10.3	50.5	30.0	8.4
Water drawing labor	25.3	46.5	16.5	11.4
Female housework	26.7	42.5	19.8	11.0
Family hygiene	26.4	49.8	20.5	3.3

Source: Project Document of "Social Sector Development Project in Amazon Area/Social Sector Development Project in Sierra Area"

2-3. Impact of Small-Scale Infrastructure Project on Reduction in Contraction Rate of Infant Diarrhea

Region	1997	2000	2004	Improvement (%)
Amazonas	1.6	1	1.1	31.20%
Ancash	2.87	2.34	1.91	33.40%
Cajamarca	0.7	0.8	0.66	5.70%
Cusco	1.2	2	1	16.70%
Loreto	4.16	3.72	3.59	13.70%
Madre de Dios	5.87	4.41	2.71	53.80%
Puno region	2	1.2	1	50.00%
Ucayali	4.3	3.8	4.1	4.70%
Average of project implementation regions	2.1	1.9	1.6	23.80%
Peru National Average	2.6	2.1	2.1	19.20%

Source: Project Documents of "Social Sector Development Project in Amazon Area/Social Sector Development Project in Sierra Area"

3. Summary

- Identifying the needs by gender for each sector.
e.g. Needs for electricity and electricity appliances are critical to select monitoring and impact evaluation indicators for ensuring benefit of woman.
- Positive gender-related impact of infrastructure projects
 - (1) Improvement in accessibility to medical and maternal services brings a positive impact on maternal health.
 - (2) Improvement in family hygiene (e.g. reduction in contraction rate of infant diarrhea)
 - (3) Improvement in female housework

Resources

JBIC and UNFPA, “The Impact of Road Development on the Health of Pregnant and Parturient Women” (2004)

http://www.jica.go.jp/english/operations/evaluation/oda_loan/post/2004/pdf/theme_02_full.pdf

Social Sector Development Project in Amazon Area/Social Sector Development Project in Sierra Area

http://www.jica.go.jp/english/operations/evaluation/oda_loan/post/2006/pdf/project47_full.pdf

JICA, “Master Plan Study for Rural Electrification by Renewable Energy in the Republic of Peru”

<http://lvzopac.jica.go.jp/external/library?func=function.opacsch.mmdsp&view=view.opacsch.mmindex&shoshisbt=1&shoshino=0000176190&volno=0000000000&filename=11893179.pdf&seqno=1>

JICA, “Sierra-Natural Resources Management and Poverty Alleviation Project”

http://www.jica.go.jp/english/operations/evaluation/oda_loan/post/2006/pdf/project46_full.pdf